APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 38

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2572.5	37775	5	1	0	22.69
QPSK	2572.5	37775	5	1	12	21.80
QPSK	2572.5	37775	5	1	24	21.76
QPSK	2572.5	37775	5	12	0	20.92
QPSK	2572.5	37775	5	12	7	20.93
QPSK	2572.5	37775	5	12	13	20.79
QPSK	2572.5	37775	5	25	0	20.79
QPSK	2595	38000	5	1	0	21.94
QPSK	2595	38000	5	1	12	21.80
QPSK	2595	38000	5	1	24	21.81
QPSK	2595	38000	5	12	0	20.58
QPSK	2595	38000	5	12	7	20.51
QPSK	2595	38000	5	12	13	20.48
QPSK	2595	38000	5	25	0	20.56
QPSK	2617.5	38225	5	1	0	21.54
QPSK	2617.5	38225	5	1	12	21.67
QPSK	2617.5	38225	5	1	24	21.64
QPSK	2617.5	38225	5	12	0	20.55
QPSK	2617.5	38225	5	12	7	20.52
QPSK	2617.5	38225	5	12	13	20.51
QPSK	2617.5	38225	5	25	0	20.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2572.5	37775	5	1	0	20.55
16QAM	2572.5	37775	5	1	12	20.35
16QAM	2572.5	37775	5	1	24	20.39
16QAM	2572.5	37775	5	12	0	19.76
16QAM	2572.5	37775	5	12	7	19.71
16QAM	2572.5	37775	5	12	13	19.78
16QAM	2572.5	37775	5	25	0	19.96
16QAM	2595	38000	5	1	0	20.62
16QAM	2595	38000	5	1	12	20.51
16QAM	2595	38000	5	1	24	20.42
16QAM	2595	38000	5	12	0	19.40
16QAM	2595	38000	5	12	7	19.51
16QAM	2595	38000	5	12	13	19.43
16QAM	2595	38000	5	25	0	19.51
16QAM	2617.5	38225	5	1	0	20.20
16QAM	2617.5	38225	5	1	12	20.23
16QAM	2617.5	38225	5	1	24	20.25

16QAM	2617.5	38225	5	12	0	19.51
16QAM	2617.5	38225	5	12	7	19.59
16QAM	2617.5	38225	5	12	13	19.58
16QAM	2617.5	38225	5	25	0	19.63
64QAM	2572.5	37775	5	1	0	19.78
64QAM	2572.5	37775	5	1	12	19.57
64QAM	2572.5	37775	5	1	24	18.79
64QAM	2572.5	37775	5	12	0	19.46
64QAM	2572.5	37775	5	12	7	19.63
64QAM	2572.5	37775	5	12	13	19.49
64QAM	2572.5	37775	5	25	0	19.49
64QAM	2595	38000	5	1	0	19.20
64QAM	2595	38000	5	1	12	19.39
64QAM	2595	38000	5	1	24	18.40
64QAM	2595	38000	5	12	0	19.30
64QAM	2595	38000	5	12	7	19.38
64QAM	2595	38000	5	12	13	19.19
64QAM	2595	38000	5	25	0	19.26
64QAM	2617.5	38225	5	1	0	18.96
64QAM	2617.5	38225	5	1	12	19.46
64QAM	2617.5	38225	5	1	24	18.63
64QAM	2617.5	38225	5	12	0	18.62
64QAM	2617.5	38225	5	12	7	18.75
64QAM	2617.5	38225	5	12	13	18.57
64QAM	2617.5	38225	5	25	0	18.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2575	37800	10	1	0	22.02
QPSK	2575	37800	10	1	25	22.20
QPSK	2575	37800	10	1	49	22.04
QPSK	2575	37800	10	25	0	20.70
QPSK	2575	37800	10	25	12	20.66
QPSK	2575	37800	10	25	25	20.68
QPSK	2575	37800	10	50	0	20.31
QPSK	2595	38000	10	1	0	21.63
QPSK	2595	38000	10	1	25	21.57
QPSK	2595	38000	10	1	49	21.47
QPSK	2595	38000	10	25	0	20.34
QPSK	2595	38000	10	25	12	20.34
QPSK	2595	38000	10	25	25	20.19
QPSK	2595	38000	10	50	0	19.98
QPSK	2615	38200	10	1	0	21.70
QPSK	2615	38200	10	1	25	21.28
QPSK	2615	38200	10	1	49	21.50
QPSK	2615	38200	10	25	0	20.37

QPSK	2615	38200	10	25	12	20.24
QPSK	2615	38200	10	25	25	20.64
QPSK	2615	38200	10	50	0	20.15

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2575	37800	10	1	0	20.21
16QAM	2575	37800	10	1	25	20.30
16QAM	2575	37800	10	1	49	20.13
16QAM	2575	37800	10	25	0	19.67
16QAM	2575	37800	10	25	12	19.77
16QAM	2575	37800	10	25	25	19.68
16QAM	2575	37800	10	50	0	19.36
16QAM	2595	38000	10	1	0	20.30
16QAM	2595	38000	10	1	25	20.12
16QAM	2595	38000	10	1	49	19.95
16QAM	2595	38000	10	25	0	19.31
16QAM	2595	38000	10	25	12	19.30
16QAM	2595	38000	10	25	25	19.22
16QAM	2595	38000	10	50	0	18.98
16QAM	2615	38200	10	1	0	20.27
16QAM	2615	38200	10	1	25	20.24
16QAM	2615	38200	10	1	49	20.31
16QAM	2615	38200	10	25	0	19.75
16QAM	2615	38200	10	25	12	19.61
16QAM	2615	38200	10	25	25	19.70
16QAM	2615	38200	10	50	0	19.26
64QAM	2575	37800	10	1	0	19.29
64QAM	2575	37800	10	1	25	19.21
64QAM	2575	37800	10	1	49	19.13
64QAM	2575	37800	10	25	0	19.58
64QAM	2575	37800	10	25	12	19.67
64QAM	2575	37800	10	25	25	19.86
64QAM	2575	37800	10	50	0	19.66
64QAM	2595	38000	10	1	0	18.64
64QAM	2595	38000	10	1	25	18.47
64QAM	2595	38000	10	1	49	18.47
64QAM	2595	38000	10	25	0	19.54
64QAM	2595	38000	10	25	12	19.51
64QAM	2595	38000	10	25	25	19.60
64QAM	2595	38000	10	50	0	19.50
64QAM	2615	38200	10	1	0	18.78
64QAM	2615	38200	10	1	25	18.86
64QAM	2615	38200	10	1	49	18.61
64QAM	2615	38200	10	25	0	18.93
64QAM	2615	38200	10	25	12	18.93

64QAM	2615	38200	10	25	25	19.01
64QAM	2615	38200	10	50	0	18.91

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2577.5	37825	15	1	0	22.12
QPSK	2577.5	37825	15	1	37	22.02
QPSK	2577.5	37825	15	1	74	22.00
QPSK	2577.5	37825	15	36	0	20.75
QPSK	2577.5	37825	15	36	29	20.65
QPSK	2577.5	37825	15	36	30	20.66
QPSK	2577.5	37825	15	75	0	20.34
QPSK	2595	38000	15	1	0	22.38
QPSK	2595	38000	15	1	37	21.55
QPSK	2595	38000	15	1	74	21.45
QPSK	2595	38000	15	36	0	20.33
QPSK	2595	38000	15	36	29	20.28
QPSK	2595	38000	15	36	30	20.28
QPSK	2595	38000	15	75	0	19.77
QPSK	2612.5	38175	15	1	0	21.52
QPSK	2612.5	38175	15	1	37	21.42
QPSK	2612.5	38175	15	1	74	21.58
QPSK	2612.5	38175	15	36	0	20.63
QPSK	2612.5	38175	15	36	29	20.41
QPSK	2612.5	38175	15	36	30	20.40
QPSK	2612.5	38175	15	75	0	20.24

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2577.5	37825	15	1	0	20.37
16QAM	2577.5	37825	15	1	37	20.31
16QAM	2577.5	37825	15	1	74	19.95
16QAM	2577.5	37825	15	36	0	19.71
16QAM	2577.5	37825	15	36	29	19.67
16QAM	2577.5	37825	15	36	30	19.77
16QAM	2577.5	37825	15	75	0	19.57
16QAM	2595	38000	15	1	0	20.33
16QAM	2595	38000	15	1	37	20.10
16QAM	2595	38000	15	1	74	19.87
16QAM	2595	38000	15	36	0	19.48
16QAM	2595	38000	15	36	29	19.19
16QAM	2595	38000	15	36	30	19.20
16QAM	2595	38000	15	75	0	19.00
16QAM	2612.5	38175	15	1	0	20.18
16QAM	2612.5	38175	15	1	37	20.02
16QAM	2612.5	38175	15	1	74	20.24

16QAM	2612.5	38175	15	36	0	19.60
16QAM	2612.5	38175	15	36	29	19.60
16QAM	2612.5	38175	15	36	30	19.36
16QAM	2612.5	38175	15	75	0	19.08
64QAM	2577.5	37825	15	1	0	18.99
64QAM	2577.5	37825	15	1	37	19.44
64QAM	2577.5	37825	15	1	74	18.86
64QAM	2577.5	37825	15	36	0	19.70
64QAM	2577.5	37825	15	36	29	19.64
64QAM	2577.5	37825	15	36	30	19.64
64QAM	2577.5	37825	15	75	0	19.70
64QAM	2595	38000	15	1	0	18.72
64QAM	2595	38000	15	1	37	18.47
64QAM	2595	38000	15	1	74	18.46
64QAM	2595	38000	15	36	0	19.69
64QAM	2595	38000	15	36	29	19.37
64QAM	2595	38000	15	36	30	19.37
64QAM	2595	38000	15	75	0	19.56
64QAM	2612.5	38175	15	1	0	18.82
64QAM	2612.5	38175	15	1	37	18.54
64QAM	2612.5	38175	15	1	74	18.54
64QAM	2612.5	38175	15	36	0	19.14
64QAM	2612.5	38175	15	36	29	18.87
64QAM	2612.5	38175	15	36	30	18.87
64QAM	2612.5	38175	15	75	0	19.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2580	37850	20	1	0	22.15
QPSK	2580	37850	20	1	49	22.07
QPSK	2580	37850	20	1	99	21.68
QPSK	2580	37850	20	50	0	20.61
QPSK	2580	37850	20	50	24	20.63
QPSK	2580	37850	20	50	50	20.49
QPSK	2580	37850	20	100	0	20.11
QPSK	2595	38000	20	1	0	22.18
QPSK	2595	38000	20	1	49	21.60
QPSK	2595	38000	20	1	99	21.31
QPSK	2595	38000	20	50	0	20.46
QPSK	2595	38000	20	50	24	20.20
QPSK	2595	38000	20	50	50	20.28
QPSK	2595	38000	20	100	0	19.88
QPSK	2610	38150	20	1	0	21.90
QPSK	2610	38150	20	1	49	21.67
QPSK	2610	38150	20	1	99	21.64
QPSK	2610	38150	20	50	0	20.33

QPSK	2610	38150	20	50	24	20.36
QPSK	2610	38150	20	50	50	20.26
QPSK	2610	38150	20	100	0	19.90

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2580	37850	20	1	0	20.34
16QAM	2580	37850	20	1	49	20.16
16QAM	2580	37850	20	1	99	19.91
16QAM	2580	37850	20	50	0	19.67
16QAM	2580	37850	20	50	24	19.66
16QAM	2580	37850	20	50	50	19.54
16QAM	2580	37850	20	100	0	19.22
16QAM	2595	38000	20	1	0	20.34
16QAM	2595	38000	20	1	49	20.14
16QAM	2595	38000	20	1	99	20.05
16QAM	2595	38000	20	50	0	19.44
16QAM	2595	38000	20	50	24	19.40
16QAM	2595	38000	20	50	50	19.29
16QAM	2595	38000	20	100	0	19.10
16QAM	2610	38150	20	1	0	20.10
16QAM	2610	38150	20	1	49	20.13
16QAM	2610	38150	20	1	99	20.15
16QAM	2610	38150	20	50	0	19.31
16QAM	2610	38150	20	50	24	19.30
16QAM	2610	38150	20	50	50	19.33
16QAM	2610	38150	20	100	0	19.11
64QAM	2580	37850	20	1	0	19.28
64QAM	2580	37850	20	1	49	19.10
64QAM	2580	37850	20	1	99	18.91
64QAM	2580	37850	20	50	0	20.00
64QAM	2580	37850	20	50	24	19.75
64QAM	2580	37850	20	50	50	19.86
64QAM	2580	37850	20	100	0	19.91
64QAM	2595	38000	20	1	0	18.83
64QAM	2595	38000	20	1	49	18.49
64QAM	2595	38000	20	1	99	18.40
64QAM	2595	38000	20	50	0	20.02
64QAM	2595	38000	20	50	24	19.54
64QAM	2595	38000	20	50	50	19.62
64QAM	2595	38000	20	100	0	19.80
64QAM	2610	38150	20	1	0	18.60
64QAM	2610	38150	20	1	49	18.48
64QAM	2610	38150	20	1	99	18.54
64QAM	2610	38150	20	50	0	19.66
64QAM	2610	38150	20	50	24	19.17

64QAM	2610	38150	20	50	50	19.23
64QAM	2610	38150	20	100	0	19.43

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	QPSK	2572.5	37775	5	25	0	4.440	Fig.1
38	QPSK	2595	38000	5	25	0	4.470	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.460	Fig.3
38	QPSK	2575	37800	10	50	0	8.930	Fig.4
38	QPSK	2595	38000	10	50	0	8.900	Fig.5
38	QPSK	2615	38200	10	50	0	8.930	Fig.6
38	QPSK	2577.5	37825	15	75	0	13.280	Fig.7
38	QPSK	2595	38000	15	75	0	13.390	Fig.8
38	QPSK	2612.5	38175	15	75	0	13.240	Fig.9
38	QPSK	2580	37850	20	100	0	17.860	Fig.10
38	QPSK	2595	38000	20	100	0	17.870	Fig.11
38	QPSK	2610	38150	20	100	0	17.870	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	16QAM	2572.5	37775	5	25	0	4.170	Fig.13
38	16QAM	2595	38000	5	25	0	4.410	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.430	Fig.15
38	16QAM	2575	37800	10	50	0	8.850	Fig.16
38	16QAM	2595	38000	10	50	0	8.880	Fig.17
38	16QAM	2615	38200	10	50	0	8.930	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.370	Fig.19
38	16QAM	2595	38000	15	75	0	13.380	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.370	Fig.21
38	16QAM	2580	37850	20	100	0	17.870	Fig.22
38	16QAM	2595	38000	20	100	0	17.860	Fig.23
38	16QAM	2610	38150	20	100	0	17.800	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	64QAM	2572.5	37775	5	25	0	4.440	Fig.25
38	64QAM	2595	38000	5	25	0	4.440	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.450	Fig.27
38	64QAM	2575	37800	10	50	0	8.910	Fig.28
38	64QAM	2595	38000	10	50	0	8.950	Fig.29
38	64QAM	2615	38200	10	50	0	8.940	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.350	Fig.31
38	64QAM	2595	38000	15	75	0	13.340	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.250	Fig.33
38	64QAM	2580	37850	20	100	0	17.820	Fig.34
38	64QAM	2595	38000	20	100	0	17.830	Fig.35
38	64QAM	2610	38150	20	100	0	17.840	Fig.36

Test Mode: QPSK

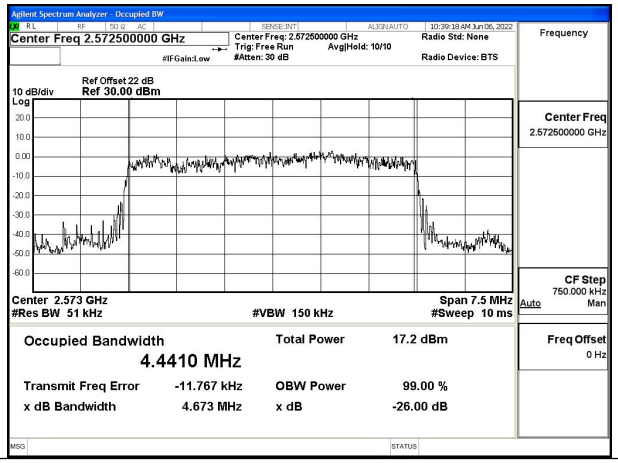

Fig.1

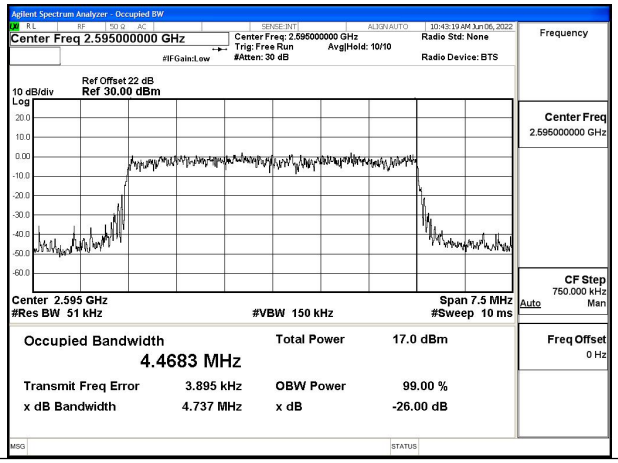

Fig.2

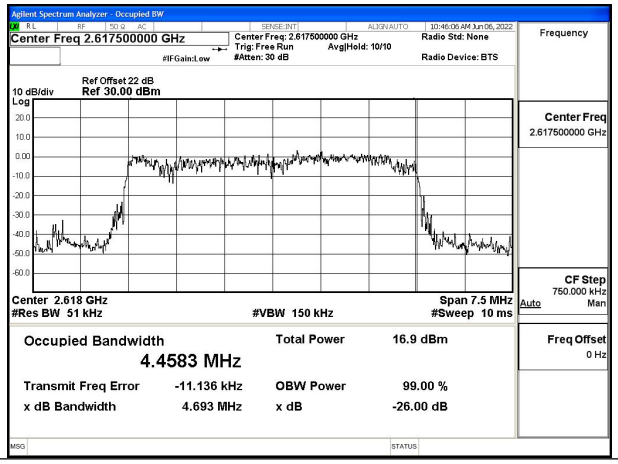

Fig.3

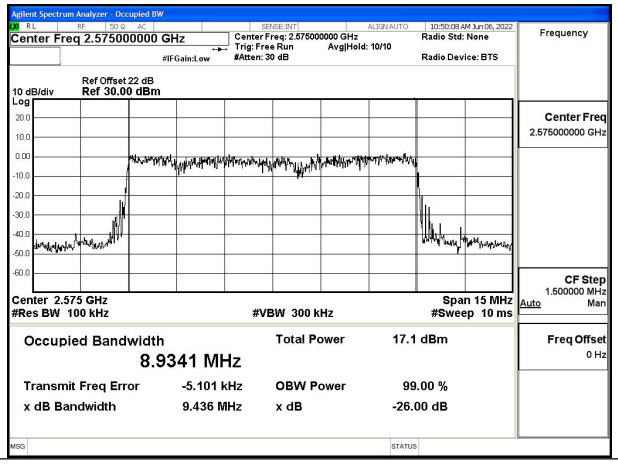

Fig.4

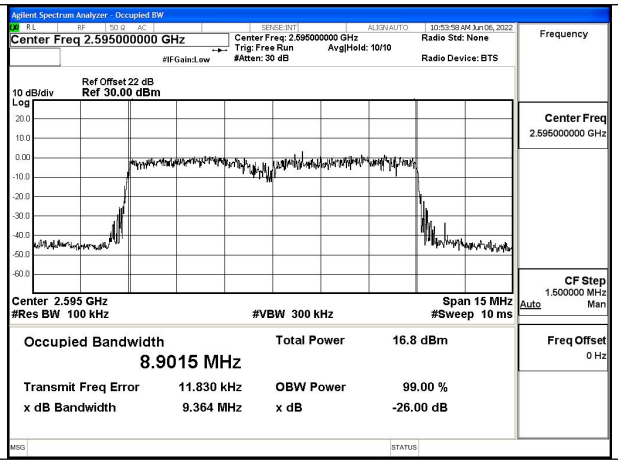

Fig.5

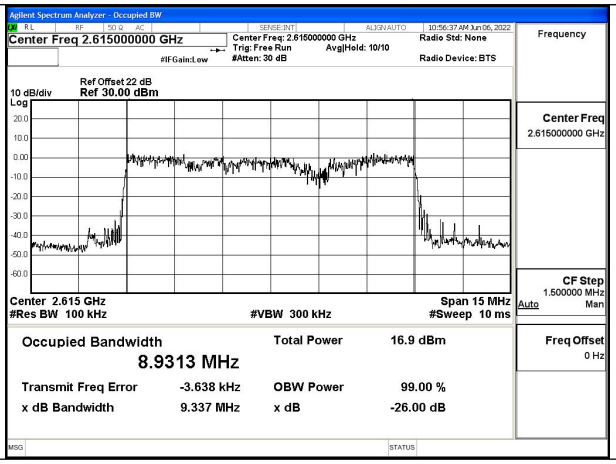

Fig.6

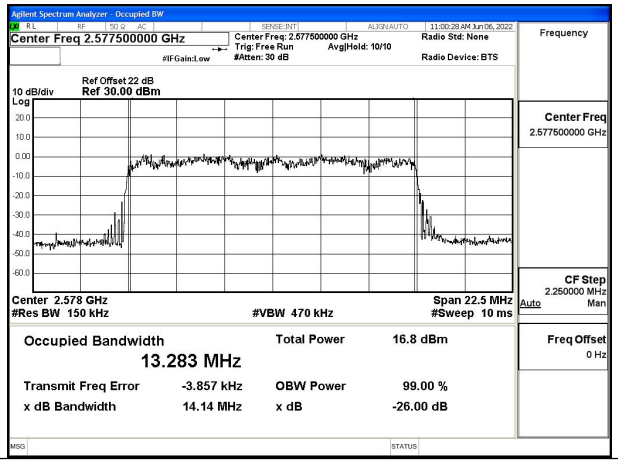

Fig.7

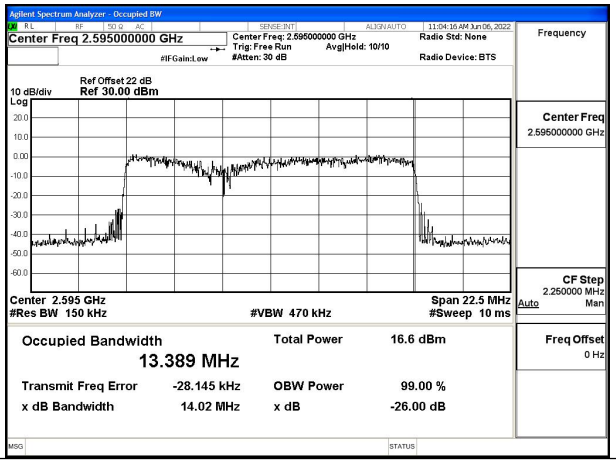

Fig.8

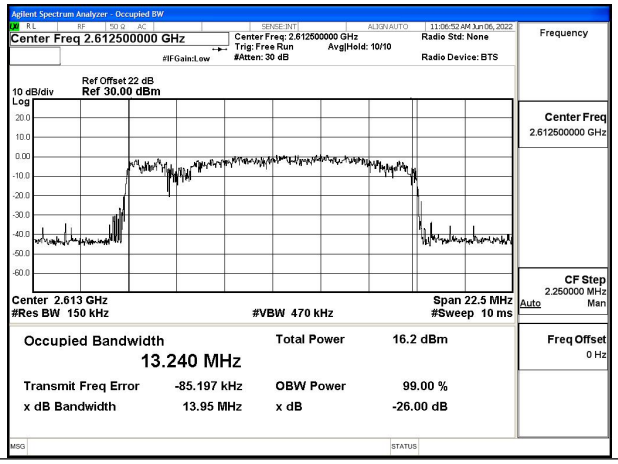

Fig.9

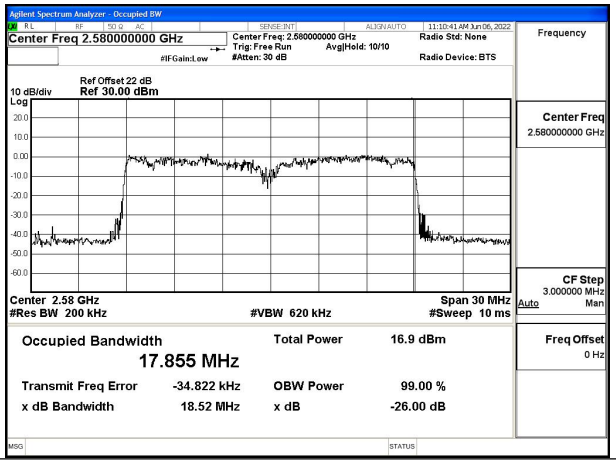

Fig.10

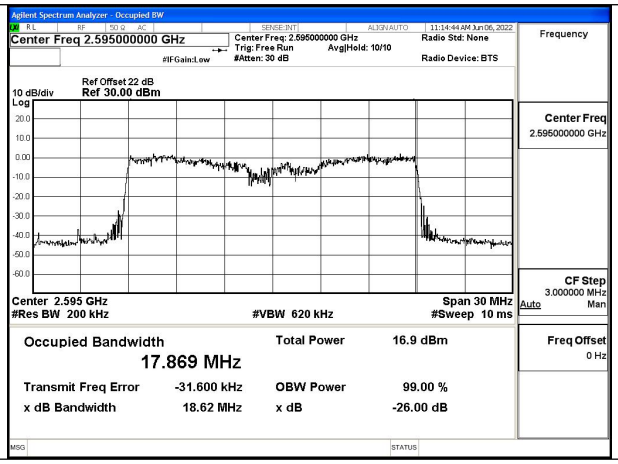

Fig.11

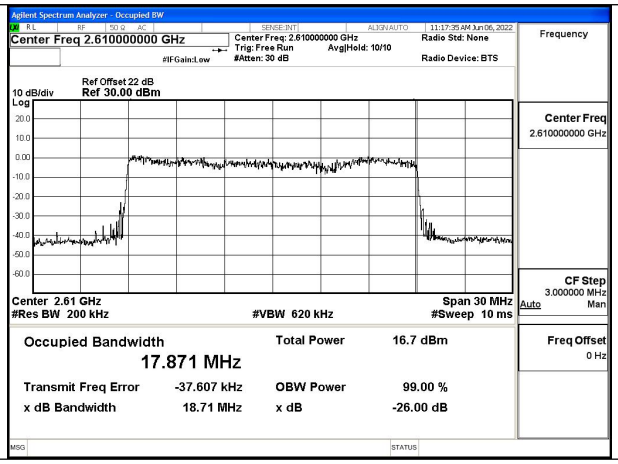

Fig.12

Test Mode: 16QAM

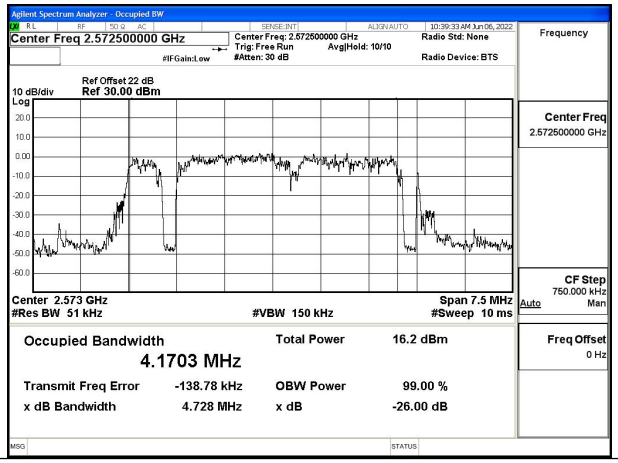

Fig.13

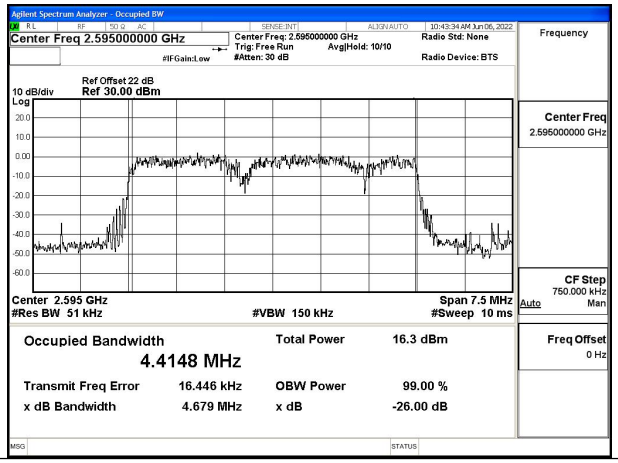

Fig.14

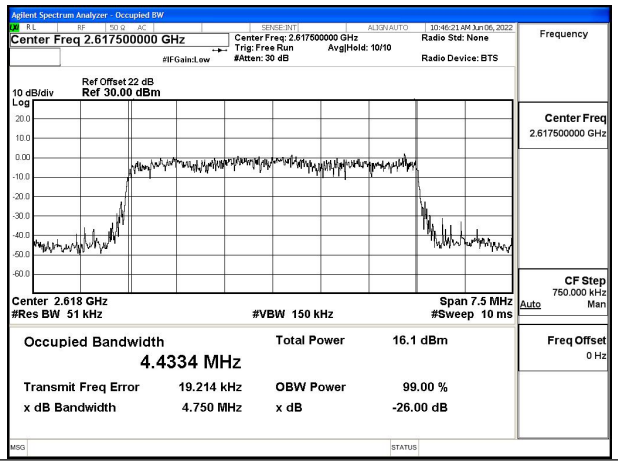

Fig.15

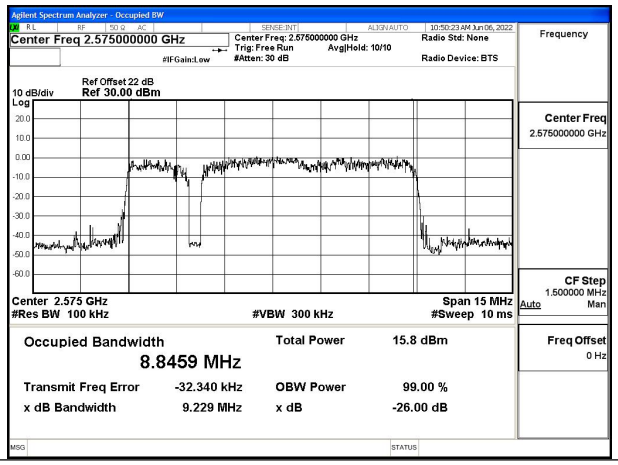

Fig.16

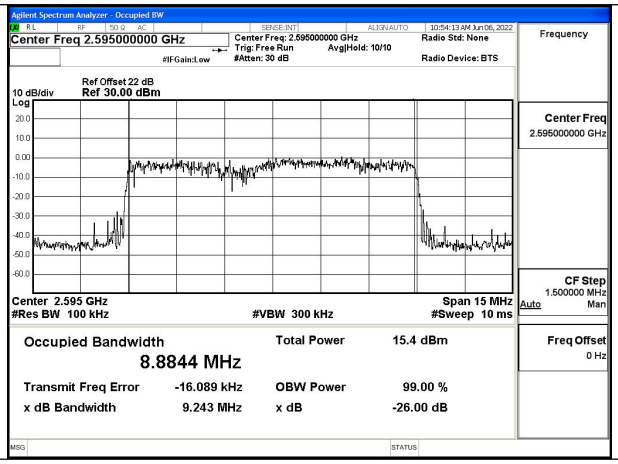

Fig.17

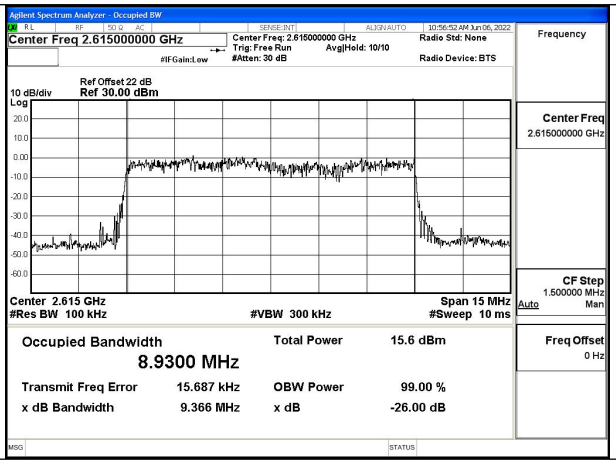

Fig.18

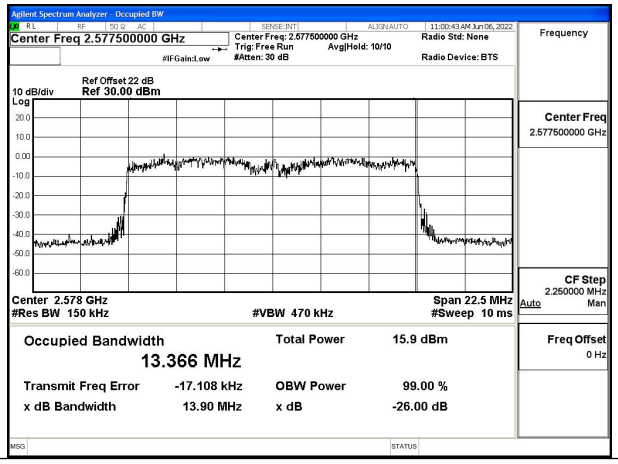

Fig.19

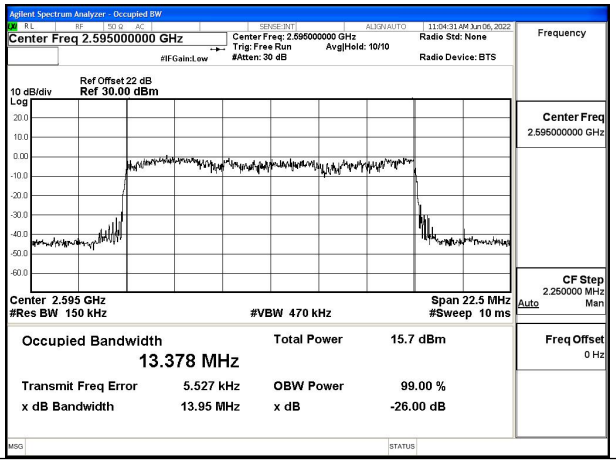

Fig.20

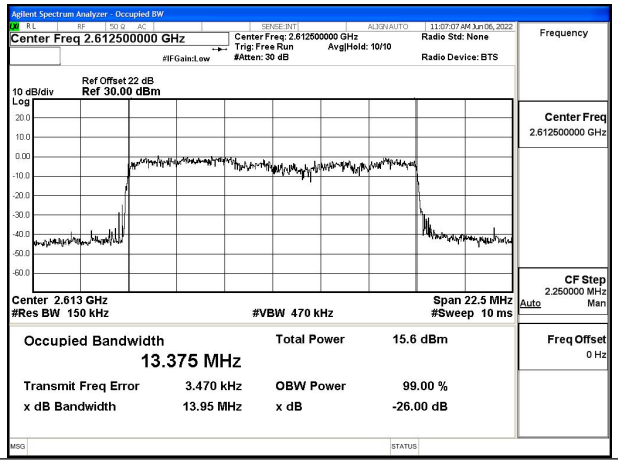

Fig.21

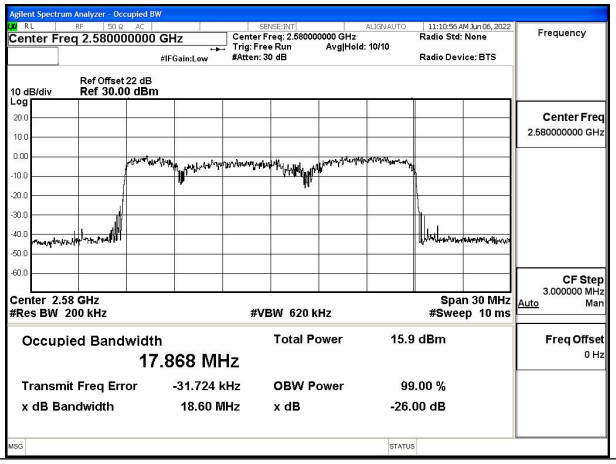

Fig.22

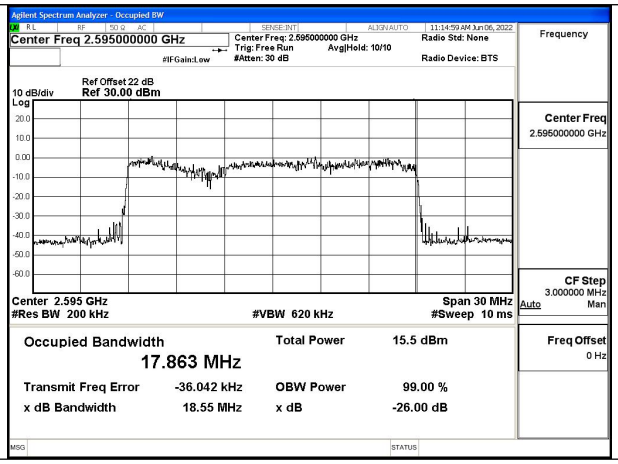

Fig.23

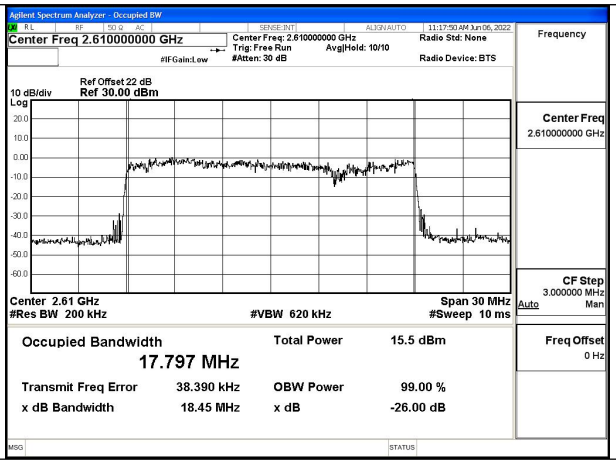

Fig.24

Test Mode: 64QAM

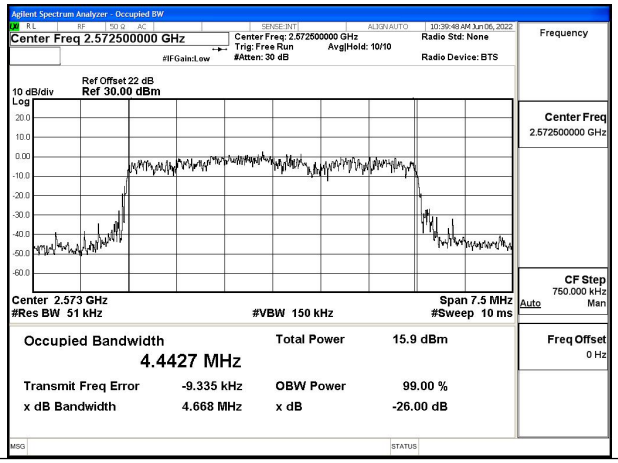

Fig.25

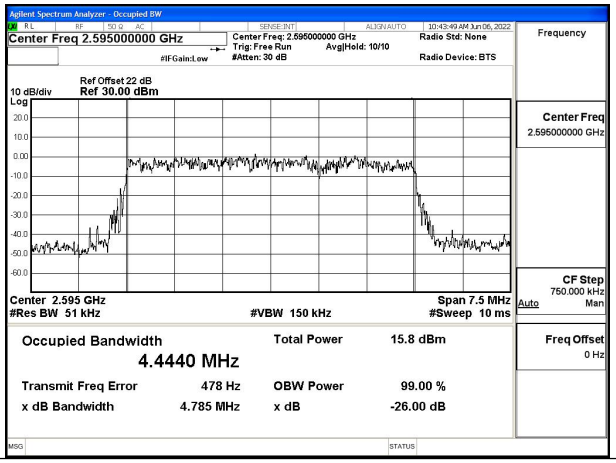

Fig.26

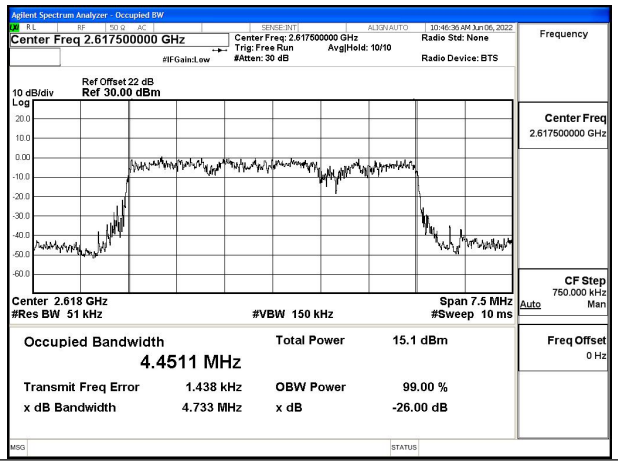

Fig.27

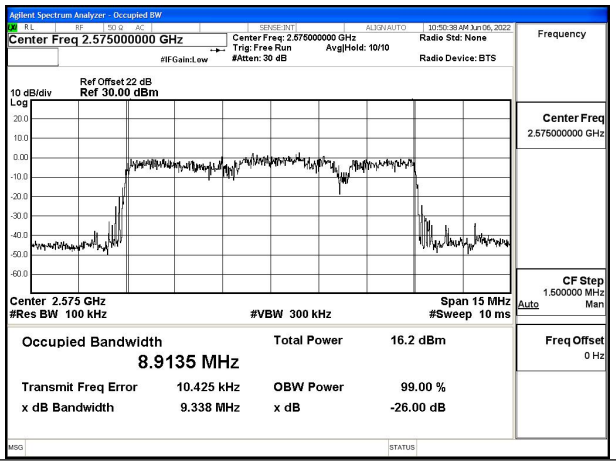

Fig.28

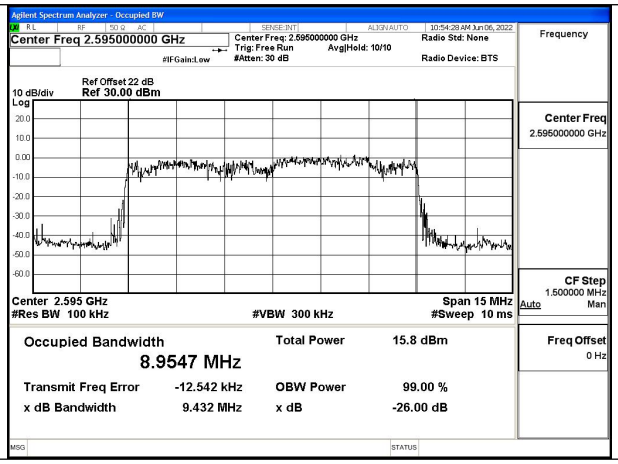

Fig.29

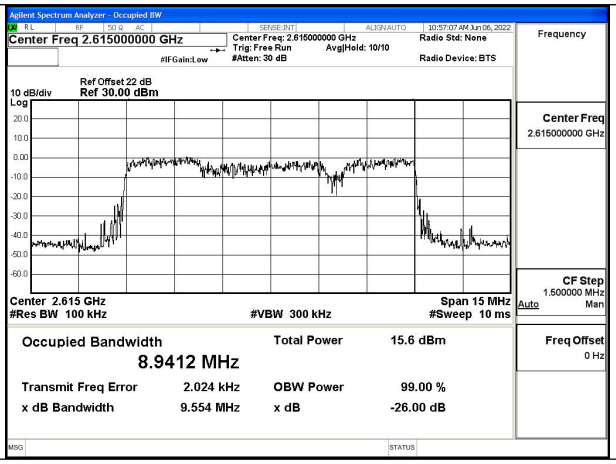

Fig.30

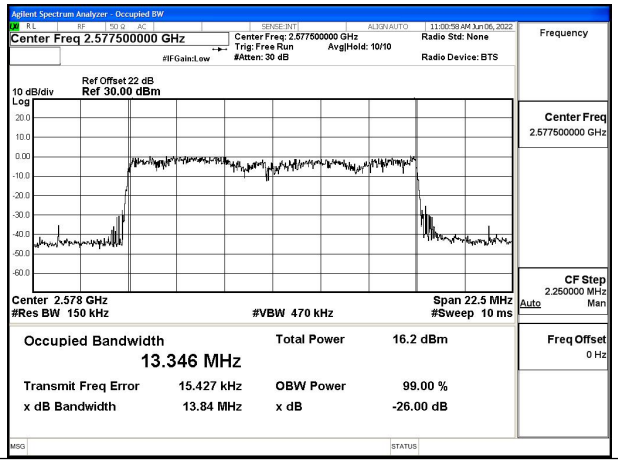

Fig.31

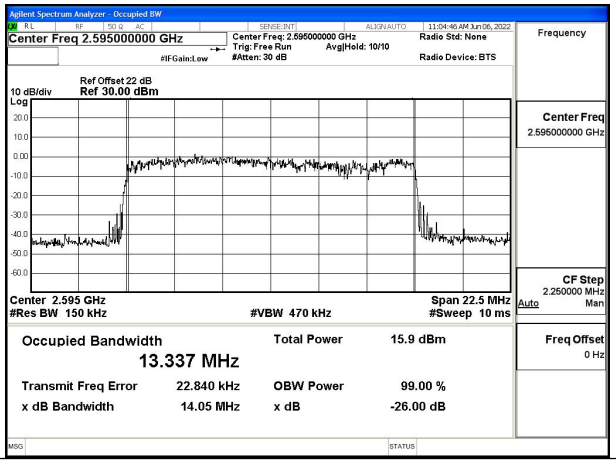

Fig.32

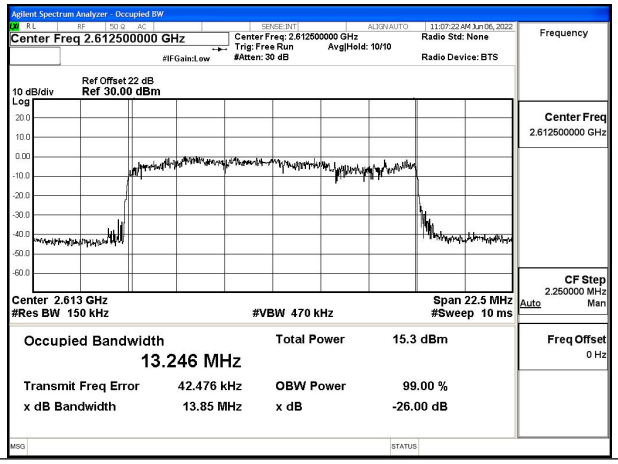

Fig.33

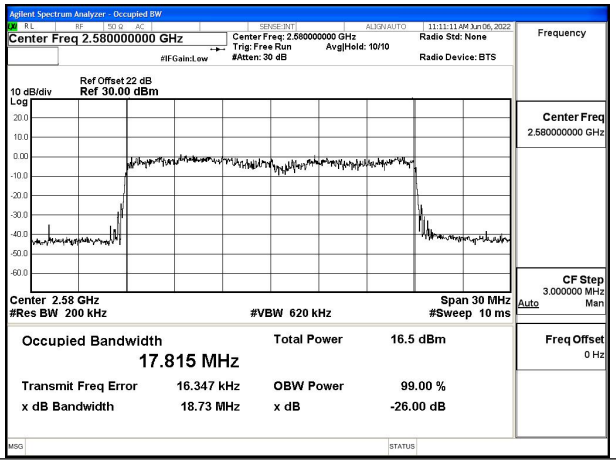

Fig.34

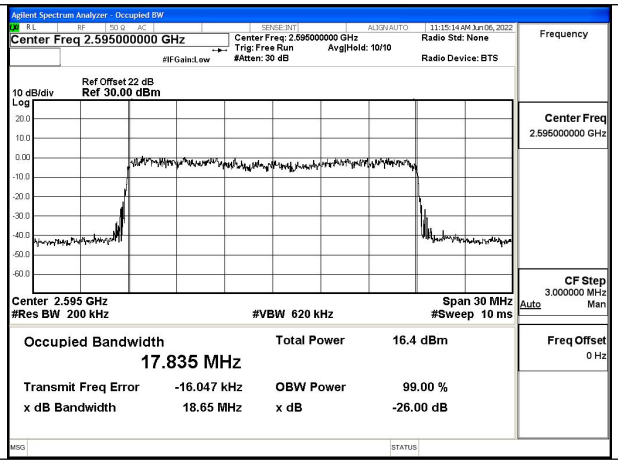

Fig.35

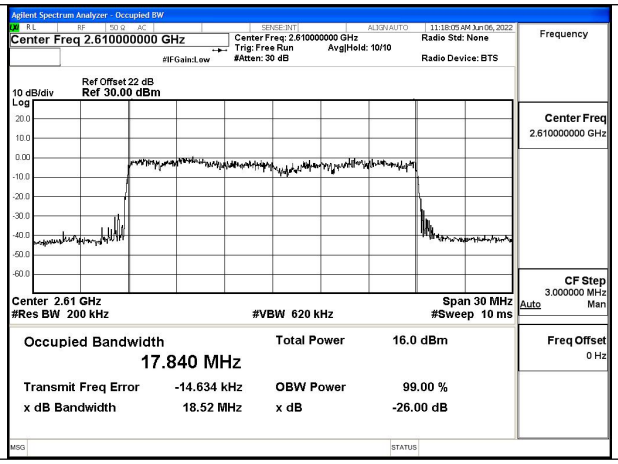

Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	QPSK	2572.5	37775	5	25	0	4.670	Fig.1
38	QPSK	2595	38000	5	25	0	4.740	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.690	Fig.3
38	QPSK	2575	37800	10	50	0	9.440	Fig.4
38	QPSK	2595	38000	10	50	0	9.360	Fig.5
38	QPSK	2615	38200	10	50	0	9.340	Fig.6
38	QPSK	2577.5	37825	15	75	0	14.140	Fig.7
38	QPSK	2595	38000	15	75	0	14.020	Fig.8
38	QPSK	2612.5	38175	15	75	0	13.950	Fig.9
38	QPSK	2580	37850	20	100	0	18.520	Fig.10
38	QPSK	2595	38000	20	100	0	18.620	Fig.11
38	QPSK	2610	38150	20	100	0	18.710	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	16QAM	2572.5	37775	5	25	0	4.730	Fig.13
38	16QAM	2595	38000	5	25	0	4.680	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.750	Fig.15
38	16QAM	2575	37800	10	50	0	9.230	Fig.16
38	16QAM	2595	38000	10	50	0	9.240	Fig.17
38	16QAM	2615	38200	10	50	0	9.370	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.900	Fig.19
38	16QAM	2595	38000	15	75	0	13.950	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.950	Fig.21
38	16QAM	2580	37850	20	100	0	18.600	Fig.22
38	16QAM	2595	38000	20	100	0	18.550	Fig.23
38	16QAM	2610	38150	20	100	0	18.450	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	64QAM	2572.5	37775	5	25	0	4.670	Fig.25
38	64QAM	2595	38000	5	25	0	4.780	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.730	Fig.27
38	64QAM	2575	37800	10	50	0	9.340	Fig.28
38	64QAM	2595	38000	10	50	0	9.430	Fig.29
38	64QAM	2615	38200	10	50	0	9.550	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.840	Fig.31
38	64QAM	2595	38000	15	75	0	14.050	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.850	Fig.33
38	64QAM	2580	37850	20	100	0	18.730	Fig.34
38	64QAM	2595	38000	20	100	0	18.650	Fig.35
38	64QAM	2610	38150	20	100	0	18.520	Fig.36

Test Mode: QPSK

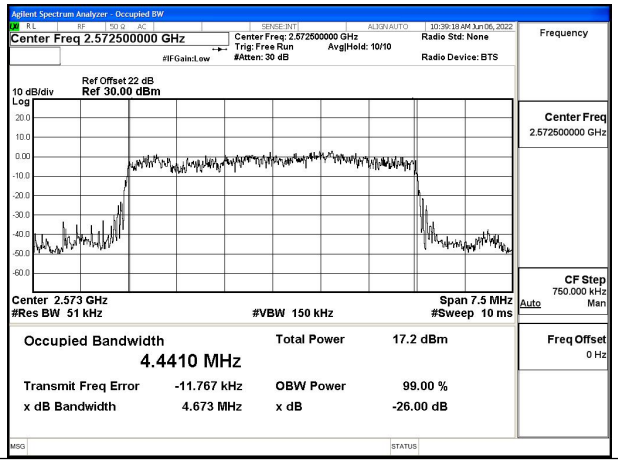

Fig.1

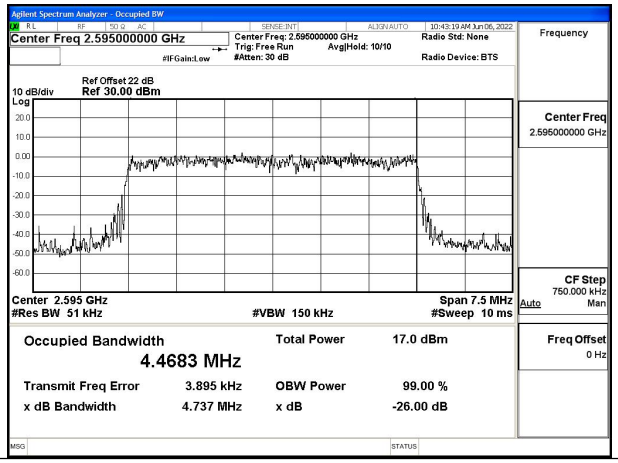

Fig.2

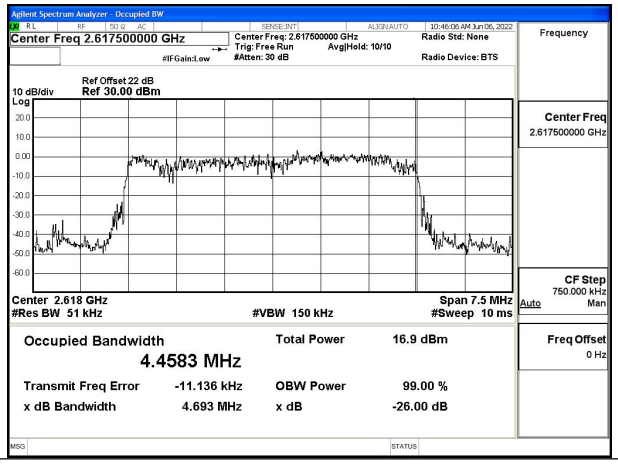

Fig.3

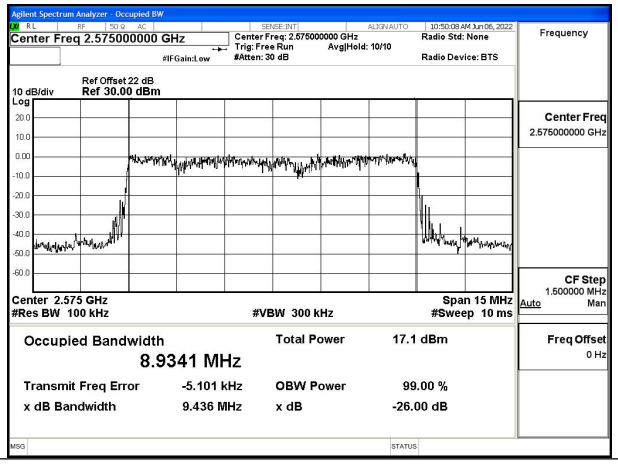

Fig.4